

THE FEDERAL POLYTECHNIC EDE, OSUN STATE

SCHOOL OF APPLIED SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

1<sup>ST</sup> SEMESTER EXAMINATIONS 2017/2018 SESSION NDII FT /DPT

TIME ALLOWED: 1 HR 15 MINS

Course Title: File Organization and Management (COM 214)

EXAMINER: ETUDAIYE A.I

INSTRUCTIONS: ANSWERS ALL QUESTIONS IN SECTION A PLUS ANY THREE (3) QUESTIONS IN SECTION B

SECTION A

Write the right option ONLY (e.g. 1 E)

1. The following best describe the concept of a file.(a) A file is a collection of organized and related record (b) A file provides a mapping between the physical and logical views of a record(c). A file is a folder that contains data (d).A file contains related field
2. The variant of FAT that restricts the number of entries in its root directory are (a) FAT 32 and FAT 12(b) FAT 32 and FAT 16(c)FAT 12 and FAT 16(d) FAT 12 and FAT 64
3. In UNIX-like systems interaction with files are done through (a) Windows explorer (b)Hardlinks (c) Kernels (d) bi directional links
4. In Windows , interaction with files are done through the (a) File explorer (b) Hardlinks (c) Operating System (d) Shortcuts
5. The smallest unit of information storage is (a) Byte(b) Bit (c) Character(d) Field
6. This type of filesystem do not have directories rather everything is stored at the same root level (a) Flatfile system (b) Disk filesystem (c) Network file system (d) Flash file system
7. Traditional file systems have the facilities to do the following (a) Move, Create, Prepend.(b) Create, Move, Append (c) Prepend, Truncate, Delete (d) Truncate,Prepend,Delete
8. Which of the following storage medium is suitable for recovering portions of a corrupt database? (a) primary memory (b) secondary storage (c) disconnected storage (d) tertiary storage
9. Which of the Filesystems has rich meta data and is case preserving? (a) HFS b) HFS+(c) XFS (d) NTFS
10. The total amount of stored information that a storage device or medium can hold is its (a) Raw capacity (b) Density (c) Latency (d) Throughput
11. This best describes the process of storing records into a data storage device (a) Writing(b) Recording(c) Sorting (d) A and B
12. In UNIX-like OS , user interaction with files are referred to as (a) User space processes (b) GUI (c) Forms (d) Database
13. A Record is  
(a) a collection of organized and related files (b) A collection of organized and related data(c) A student email (d) A database
14. Information in a computer file can consist of smaller packets of information, often called (a) Record (b) data (c)file (d) objects
15. The basic unit of measurement of information storage is( a)The byte(b) The bit(c)A Char (d) A Field
16. One of these is NOT a basic structuring concept of a database (a)Entity type(b)Attribute type(c) Relationship type(d)Schema
17. In traditional file system, one problem that necessitates the implementation of databases is NOT (a) Lack of central control(b) Lack of Standard(c) Data redundancy(d)flexibility
18. A computer file is (a)usually based on some form of durable storage (b) usually stored in a database(c) usually stored serially on a data storage device( d)non volatile
19. Making a file more modern by adding recent record to the file is regarded as (a) File Updating(b) Sorting (c) Searching(d)Querying

20. This is the frequency with which active records in the file are accessed.(a) Hit rate (b) Volatility(c) Growth(d) size
21. This uses a centralized database as central source of reference data for computation(a)Network database(b) Hierarchical database(c)database processing(d)transaction processing
22. Which is the final step in the data processing cycle?(a) Data Recording(b) Transmission(c) Storage (d)Retrieval
23. This is also called a standing file (a) Master file(b) Archive file(c) Reference file (d)Work file
24. One Utility programs that allows users to manipulate files directly is(a)File managers(b) File explorer(c)windows explorer(d) Hardlinks
25. Which of these file systems allow ACL- based permission control?(a) FAT (b)NTFS(c) HFS+(d) HFS
26. Which of the filesystem allows attribute indexing?(a) FAT(b)NTFS(c) HFS+(d)HFS
27. One medium where serial file is used is on(a) Magnetic tape(b)Hard disk (c) Flash memory(d) Shared Network
28. Records in a serial file are in(a)No particular order(b)Ordered(c) Indexed(d)Random
29. Which type of index provides a location for each record existing in the system? (a) Basic index(b)Implicit index(c) Limit index(d) inverted list
30. This file contains operational data extracted from the transaction of the organization.(a) Master file (b) Archive file (c) Transaction file (d) Work file

## SECTION B

Answer any three (3) questions from this section

- 1a. Clearly differentiate between
  - i. File and record
  - ii. File and directory
  - iii. Record and database
  - iv. File and character.
- 1b. why is it that the computer is slower when accessing the external hard disk compared to when accessing its internal hard disk
2. Mention what make implementation of database necessary?
- 2b. Explain file organization
- 2c. Describe the basic services of a file system
3. Explain the characteristics of file system under these operating systems
  - (i) Mac O/S X
  - (ii) Microsoft Windows
  - (iii) Linux
- 3b. Explain any two (2) stages of the data processing cycle
4. Briefly describe
  - (i) Primary storage (ii) Secondary storage
- 4b what do you understand by:
  - (i) Offline storage
  - (ii) Latency
  - (iii) Throughput
5. Explain the following file organization methods
  - (i) Sequential
  - (ii) Index Sequential
  - (iii) Random
- 5b. Describe the following file types
  - (i) Master file (ii) Archive file.



**THE FEDERAL POLYTECHNIC, EDE  
COMPUTER SCIENCE DEPARTMENT  
FIRST SEMESTER EXAMINATION (2021/2022 SESSION)**

**COURSE TITLE:** Computer System Troubleshooting(COM214)    **DATE:** 29<sup>th</sup> September, 2022  
**CLASS:** NDII (FT & DPT)

**TIME ALLOWED:** 2hrs

**SECTION A (INSTRUCTION: Answer all)**

1. \_\_\_\_\_ is the reviewing, diagnosing and identifying operational or technical problems within a hardware device or equipment.
2. \_\_\_\_\_ is the process of scanning, identifying, diagnosing and resolving problems errors and bugs in software.
3. The initial set of operations that a computer system performs when power is switched on is called \_\_\_\_\_.
4. \_\_\_\_\_ is the tool for measuring instrument that can measure multiple electrical properties.
5. A diagnostic device that is plug into the system's expansion slot and test the operation of the system as it boots up is called \_\_\_\_\_.
6. The computer term boot is a short form for \_\_\_\_\_.
7. A systematic approach to problem solving that is often used to find and correct issues with complex machines, electronics, computers and software systems is known as \_\_\_\_\_.
8. \_\_\_\_\_ is used to send digital data over a telephone line.
9. \_\_\_\_\_ is a series of test conducted on the computer's main memory input/output device, disk drives and the hard disk.
10. \_\_\_\_\_ provides protection to the system component.
11. \_\_\_\_\_ the part of the system software that includes the instructions that the computer uses to accept input and output
12. Primary memory is also called \_\_\_\_\_
13. \_\_\_\_\_ is an interface between the hardware and the user.
14. A special program containing settings to control hardware is known as \_\_\_\_\_.
15. A series of tests conducted on the computer's main memory, input/output devices, disk drives, and the hard disk is called \_\_\_\_\_.
16. \_\_\_\_\_ is a system in which multiple computers are connected to each other to share information and resources.
17. \_\_\_\_\_ is a program that enables a computer and a device to communicate with each other.
18. \_\_\_\_\_ is a malicious piece of computer code designed to spread from device to device.
19. A primary memory whose content cannot be erased even when power is switched off is called \_\_\_\_\_.
20. \_\_\_\_\_ is often thought as the engine of the computer.

## **SECTION B (INSTRUCTION: Attempt any four)**

### **QUESTION ONE ✓**

- a. Explain briefly "Computer Booting". Hence, mention types of booting you know. 3marks
- b. As a result of several issues, a computer system may fail to start properly. State **FOUR** likely causes of computer startup failure. 4marks
- c. Enumerate **SIX** troubleshooting and maintenance tools. 3marks

### **QUESTION TWO .**

- a. To setup a computer network, some hardware's are required aside computer system. List **FOUR** hardware required to setup a computer network. 2marks
- b. Define Diagnostic program 2marks
- c. Due to the complexity computing systems, a wise technician will have and follow a troubleshooting methodology. Highlight six-step troubleshooting methodology CompTIA recommends. 6marks

### **QUESTION THREE ✓**

- a. Differentiate between hardware troubleshooting and software troubleshooting 4marks
- b. Define Computer Virus. 2marks
- c. The speaker of a functional desktop computer dedicated for music editing suddenly stop making sound after update. State **TWO** likely cause(s) and **TWO** suggested solution(s). 4marks

### **QUESTION FOUR ✓**

- a. List the booting process of a computer system. 6marks
- b. Define the serial transmission? 2marks
- c. State **TWO** importance of hard disk partitioning 2marks

### **QUESTION FIVE**

- a. State **THREE** symptoms of hard drive failure 3marks
- b. State **THREE** symptoms of RAM failure 3marks
- c. In a tabular form, describe the following beep codes/power led blinking for Dell systems  
(i) 1-1-2 (ii) 3-3-4 (iii) 4-2-2 (iv) 4-4-4 4marks

### **QUESTION SIX ✓**

- a. A conventional motherboard comprises of various component. List five such components 5marks
- b. Explain the term "Power Good". 2marks
- c. What is switch mode power supply? 3marks



**THE FEDERAL POLYTECHNIC EDE**  
**SCHOOL OF APPLIED SCIENCES**  
**COMPUTER SCIENCE DEPARTMENT**  
**First Semester 2021/2022 Examination**

**Class: ND II FT, ND II DPT & PT III Computer Science**

**Course Code: COM 215**

**Title: Application Packages II**

**Duration: 2 Hrs.**

**Instruction: Attempt all questions from Section A and any three from Section B**

**Section A**

1. Following are examples of productivity package excepts (a) Firmware (b) Web browsers (c) Electronic mail (d) Groupware
2. Following are software suits except (a) Microsoft Office (b) Microsoft publisher (c) Lotus SmartSuite, (d) WordPerfect Office.
3. All programs in a software suite use the same (a) Input device (b) Output device (c) Processing device (d) Graphical user interface
4. Graphic image can be used to (a) run a program (b) send e-mail (c) surf the web (d) portray ideals
5. Following are examples of graphic excepts (a) light pen (b) typography (c) numbers (d) diagrams
6. Graphics can be \_\_\_\_\_ or artistic (a) realistic (b) functional (c) printable (d) redraw
7. How many Primary keys can have in a table? (a) Only 1 (b) Only 2 (c) Depends on no of Columns (d) Depends on DBA
8. SQL is an acronym of (a) Structure Query List (b) Structure Query Lateral (c) Structure Query Language (d) None of the Above
9. Numerical data can be analysed by the use of (a) Graphic representation (b) calculator (b) computer (d) table
10. Following are graphic representation excepts (a) drawing (b) printmaking (c) Wordart (d) map
11. \_\_\_\_\_ is pixel defined graphics (a) vector graphics (b) raster graphics(c) corel draw graphics (c) photoshop graphics
12. \_\_\_\_\_ is the process of generating an image from a model, by means of computer program (a) rendering (b) pixel (c) shading (d) copying
13. Following are applications of computer graphics excepts (a) Information visualization (b) numerical analysis (c) Scientific visualization (d) Video Games
14. DNG is an acronym of \_\_\_\_\_ (a) digital New Format (b) digital Negative Format (c) digital Network Format (d) digital negative file
15. \_\_\_\_\_ files are usually uncompressed, so they offer the opportunity for extensive post-processing. (a) TIFF (b) JPEG (c) PDF (d) PNG
16. \_\_\_\_\_ are visual images or design on some surface such as wall, canvas, screen, paper or stone to inform, illustrate or entertain
  - a. Graphics
  - b. Pixel
  - c. Computer
  - d. Illustration
17. You can erase any object in AUTO CARD by typing the \_\_\_\_\_ command
  - a. Clean
  - b. Delete
  - c. Backspace
  - d. None of the above
18. Within Microsoft Access there are \_\_\_\_\_ major objects
  - a. Five
  - b. Six
  - c. Three
  - d. None of the above
19. Access allows you to manage your information in one \_\_\_\_\_ file
  - a. Spreadsheet
  - b. Database
  - c. Table
  - d. Form
20. The method for adding detail, surface texture, or color to a computer-generated graphic or 3D model is referred to as \_\_\_\_\_
  - a. Texture mapping
  - b. Color mapping
  - c. Graphics Mapping
  - d. All of the above
21. \_\_\_\_\_ applies to a wide range of programs that allow the user to created drawings, plans, and designs electronically
  - a. Computer Graphics
  - b. Computer aided design
  - c. Pictorial Design
  - d. Graphics
22. \_\_\_\_\_ is the process of generating an image from a model, by means of computer programs.
  - a. Ray tracing
  - b. 3D projection
  - c. Modeling
  - d. Rendering
23. \_\_\_\_\_ is the smallest graphical picture or unit represented on the computer screen
  - a. Picture
  - b. Image
  - c. Graphics
  - d. Pixels

24. Forms allow you to view data stored in your \_\_\_\_\_  
a. Table b. Database c. Reports d. All of the above
25. The techniques used to display a 2D projection of a 3D discretely sample data set  
a. Projection b. Volume rendering c. Projection rendering d. Graphic rendering
26. The simplest type of form is \_\_\_\_\_  
a. Data entry b. Bound c. Custom d. Switchboard
27. A collection of interrelated records is called \_\_\_\_\_  
a. Database b. Spreadsheet c. Management information System d. Text File
28. CorelDraw is a \_\_\_\_\_ type of graphics software  
a. raster graphics b. vector graphics c. both d. None of these
29. Microsoft Access is a \_\_\_\_\_  
a. Network Database Model b. RDBMS c. ORDBMS d. OODBMS
30. \_\_\_\_\_ allow you to print data based on queries/tables that you have created  
a. Tables b. Queries c. Forms d. Reports

### Section B

#### Question One

- (a) Define the following:  
i. Volume rendering ii. Texture Mapping iii. Rendering iv. Pixel v. Image. (5 Mks)
- (b) Mention 5 uses of graphics package. (5Mks)

#### Question Two

- (a) Discuss any five advantages of software suits (5 mks)  
(b) List ten examples of graphic packages (5 mks)

#### Question Three

- (a) Differentiate between raster and vector graphics (2 mks)  
(b) List ten application area of computer graphics (5 mks)  
(c) Highlight any six image formats known to you (3 mks)

#### Question Four

- (a) A multinational company employed you to enlighten them on the tools that are available for use in graphics package. Mention 5 of this tools and what they are used for (5 Mks)  
(b) Mention 5 common features of graphics Package. (5 Mks)

#### Question Five

- (a) What is a field? (2 Mks)  
(b) List and explain the view in MS Access (4 Mks)  
(c) Define the following i. Report ii. Forms iii. Query iv. Table (4 Mks)

#### Question Six

- (a) Differentiate between drawing package and painting package (2 mks)  
(b) Discuss any five feature of graphic package (5 mks)  
(c) Enumerate six uses of graphic packages (3 mks)

**THE FEDERAL POLYTECHNIC EDE, OSUN STATE  
SCHOOL OF APPLIED SCIENCE  
DEPARTMENT OF COMPUTER SCIENCE  
FIRST SEMESTER 2021/2022 EXAMINATIONS**

**COURSE TITLE: Unified Modelling Language (UML) COURSE CODE: COM213**

**CLASS: ND2 and DPT2 COMPUTER SCIENCE**

**TIME ALLOWED 2HOURS**

**INSTRUCTION:** Answer SECTION A and any other FOUR questions from SECTION B. All questions carry equal marks

**SECTION A**

1. .... is a complete description of a system from a particular perspective? (a) Model (b) UML (c) Class (d) Abstract
2. .... graphically shows a view of a part of your model? (a) Pictures (b) Diagram (c) Slates (d) All of the above
3. .... shows the flow of events within a use case? (A) Activity diagram (b) Use case Diagram (c) Behaviour diagram (d) All of the above
4. ....diagramsshow the static architectural parts of a system? (a) Architectural structure diagram (b) Structure diagram (c) Behaviour diagram (d) All of the above
5. ....describes the realization of use cases in terms of design elements? (a) Design model (b) Object model (c) Class diagram (d) None of the above
6. .... Shows a set of classes, interfaces and the relationship between them? (a) Class diagram (b) Component diagram (c) Object diagram (d) All of the above
7. A ..... diagram shows the interaction between the system and entities external to the system?(a) Activity diagram (b)User case diagram (c) Active diagram (d) Use case diagram.
8. OMG stands for? (a) Objective Management Group (b) Observation Management Group (c) Object Management Group (d) Object Majority Group
9. A use case typically includes the following except.....(a) Constraints (b) Scenario (c) Path (d) Requirement
10. There are two types of implementation diagram. True or False?
11. UML is a low level language. True or False?
12. The model you choose will determine how the problem is solved? True/false
13. A comprehensive single Model is sufficient for all problems? True or false?
14. Activity diagram is an example of Behaviour diagram. True/False
15. Object diagram shows a set of objects and their relationship. True or false?
16. UML diagrams can be likened to a blue prints of a software system. True or False?
17. UML is a language for documenting design. True or False?
18. A system architecture can consists of system components and the sub-system. True or False?
19. Scenarios is a diagram used to display the sequence of activities. True or False?
20. Deployment diagram can be used to model embedded systems. True or False?

## SECTION B

1a. Define Modelling (2mrks)

b. What are the four aims of modelling (4marks each)

C. List four modelling principles? (4mrks)

2a. List and discuss four types of System Modelling. (5mrks)

2b. Define System modelling tools (3mrks)

2c. Explain Class Diagram(2mrks)

3a. Discuss Unified Modelling Language (5mrks)

3b. Explain five uses of UML (5marks)

4.a Define Structure diagrams (2mrks)

4b. List and explain five examples of Structure diagrams (8mrks)

5a. Discuss Component diagram(3mrks)

b. List three uses of Deployment diagram (3mrks)

c. Discuss Use case diagram (4mrks)

6a. Create a simple class diagram symbol (2mrks)

b. From the class diagram symbol, Give a unique class name and indicate and indicate the several attributes and behaviour they possesses (3mrks).

c. Using the class diagram with the unique provided above as a super class, create two sub-classes that can be inherited from the super class and allow each of them to add one or more attributes to the general attributes of the super class. (5mrks)

Wishing you all the best.

**FEDERAL POLYTECHNIC, EDE  
DEPARTMENT OF COMPUTER SCIENCE  
1<sup>ST</sup> SEMESTER EXAMINATION, 2017/2018 SESSION**

**PROGRAMME:** ND II FT & DPT Computer Science  
**COURSE TITLE:** Introduction to System Programming      **COURSE CODE:** COM 212  
**INSTRUCTION:** Attempt any four questions      **DURATION:** 2 hours

**QUESTION ONE**

- a) Differentiate between Resident and Cross Assemblers? (6 marks)
- b) What is system software? (4 marks)
- c) Enumerate ten examples of system software. (5 marks).

**QUESTION TWO**

- a) Discuss what happens in a Two pass Assembler. (5 marks)
- b) Briefly discuss the Register and Direct addressing modes. (6 marks)
- c) Discuss the Synthesis part of the compiler structure (4 marks)

**QUESTION THREE**

- a) Highlight the different errors that occur in the compilation process. (2 marks)
- b) Briefly discuss the items mentioned in (a) above (8 marks)
- c) Differentiate between Token and Tokenization (5 marks)

**QUESTION FOUR**

- a) What are Library programs? (5 marks)
- b) Mention five High level assemblers' opcodes. (5 marks)
- c) Give the functions of the opcodes mentioned above(5 marks)

**QUESTION FIVE**

- a) Mention the different phases of compiler design. (3 marks)
- b) Discuss any three of your answer from (a) above (7½ marks)
- c) Briefly discuss the Future symbol problem (4½ marks)

**QUESTION SIX**

- a) Discuss the Multi pass compiler (4 marks)
- b) Differentiate between Interpretation and Compilation? (7 marks)
- c) Describe the Symbol table (4 marks)

*Goodluck*

THE FEDERAL POLYTECHNIC EDE

SCHOOL OF APPLIED SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

FIRST SEMESTER 2021/2022 ACADEMIC SESSION

COURSE TITLE: JAVA Programming Language II

CODE: COM 211

COURSE LECTURER(S): LAWAL M. O.

UNIT: 3 TIME 2<sup>1/2</sup>HR

INSTRUCTION: Answer all questions in SECTION A and Four questions in SECTION B

**SECTION A**

- 1) A process that involves recognizing and focusing on the important characteristics of a situation or object is known as: (a) Encapsulation (b) Polymorphism c) Abstraction (d) Inheritance (e) Object persistence
- 2) Which statement is true regarding an object? (a) An object is what classes instantiated are from  
b) An object is an instance of a class (c) An object is a variable (d) An object is a reference to an attribute (e) An object is not an instance of a class.
- 3) Which of the following create an empty two-dimensional array with dimensions 2x2? A. int[][] blue = new int[2, 2];  
3. int[] blue = new int[2], [2]; C. int[] blue = new int[2][2]; D. int[] blue = new int[2 x 2];
- 4) Object-oriented inheritance models is: (a) "is a kind of" relationship (b) "has a" relationship (c) "want to be" relationship (d) inheritance does not describe any kind of relationship between classes (e) "contains" of relationship.
- 5) The wrapping up of data and functions into a single unit is called (a) Encapsulation (b) Abstraction (c) Data hiding (d) Polymorphism (e) Message passing.
- 6) Given a class named student, which of the following is a valid constructor declaration for the class? (a) Student student s) {} (b) Student student () {} (c) Private final student () {} (d) Void student () {} (e) Static void student () {}.
- 7) What is the sequence of major events in the life of an applet? (a) init, start, stop, destroy (b) start, init, stop, destroy (c) init, start, destroy, stop (d) init, start, destroy (e) destroy, start, init, stop.
- 8) Which of the following is true in regard to applet execution? (a) Applets loaded from the same computer where they are executing have the same restrictions as applets loaded from the network. (b) Applets loaded and executing usually have none of the restrictions faced by applets that get loaded from the network. (c) Applets loaded and executing usually have some restrictions faced by applets that get loaded from the network. (d) Applets can't react to user input and change dynamically (e) Applets can be run independently.
- 9) Given a class named Book, which one of these is a valid constructor declaration for the class? (a) Book(Book b)  
} (b) Book Book() {} (c) private final Book() {} (d) void Book() {} (e) abstract Book() {}.
- 10) What will be the result of attempting to compile the following program?
- ```
public class MyClass {  
    long var;  
    public void MyClass(long param) { var = param; } //1  
    public static void main(String[] args) {  
        MyClass a,b;  
        = new MyClass(); //2  
        = new MyClass(5); //3  
    }  
}
```
- a) A compilation ERROR will occur at (1), since constructors cannot specify a return value  
b) A compilation error will occur at (2), since the class does not have a default constructor  
c) A compilation error will occur at (3), since the class does not have a constructor which takes one argument of type  
d) The program will compile correctly (e) The program will compile and execute correctly.
- 11) Which of the following is not OOPS concept in Java? a) Inheritance b) Encapsulation c) Polymorphism d) compilation
- 12) Which of the following is a type of polymorphism in Java? a) Compile time polymorphism b) Execution time polymorphism c) Multiple polymorphism d) Multilevel polymorphism
- 13) When is method overloading determined? a) At run time b) At compile time c) At coding time d) At execution time
- 14) Which concept of Java is a way of converting real world objects in terms of class? a) Polymorphism b) encapsulation c) Abstraction d) Inheritance
- 15) Which concept of Java is achieved by combining methods and attribute into a class? a) Encapsulation b)

① Inheritance ② Polymorphism ③ Abstraction

④ Method overriding is a combination of inheritance & Polymorphism

(A) What is it called where a child object gets killed and the parent object is killed (F)

(B) What is it called where object has its own life cycle and child object

19) How many of the following are legal declarations? i. double lion; ii. double[] tiger; iii. double bear[];

- A. None
- B. One i
- C. Two ii
- D. Three iii

20) How do you determine the number of elements in an array? int buses[] = new int[5];

- A. buses.length
- B. buses.length()
- C. buses.size
- D. buses.size()

## SECTION B (Answer four question from this section and Question one is compulsory)

### QUESTION ONE

- 1a. Describe the following JAVA concepts 5mrks
  - a. method overloading
  - b. Polymorphism
  - c. Inheritance
  - d. Encapsulation
  - e. Aggregation
- 1b. What is an array in JAVA? List all the types of array you know. 2mrks
- 1c. What are the advantages of Array ? 3mrks

### QUESTION TWO

- 2a. Using the code below; describe the JAVA concept use to write the code below, identify the errors in the code and write the output of the code. 4mrks

```
class Bike{  
    void run(){System.out.println("running");}  
}  
class Splendor extends Bike{  
    void run()  
        {System.out.println("running safely with 60km");}  
}
```

- 2b. What is JFC? State the two ways to create a frame in JAVA 3mrks
- 2c. State 2 disadvantages of Array? 3mrks

### QUESTION THREE

- 3a. What is the difference between Array and ArrayList ? 3mrks
- 3b. What is the default value of Array for different data types? 3mrks
- 3c. what is the difference between abstraction and polymorphism in Java? 4mrks

### QUESTION FOUR

- 4a. what is the difference between Polymorphism and Inheritance? 3mrks
- 4b. what is an Anonymous object? And when is it best to use an Anonymous object? 4mrks
- 4c. List the types of inheritance in java. 3mrks

### QUESTION FIVE

- 5a. What is a JAVA applet?
- 5b. what is a JAVA constructor? And list all the types of constructor you know 4mrks
- 5c. Write a JAVA code to copy the values of one object into another using Java constructor 4mrks



THE FEDERAL POLYTECHNIC EDE  
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COMPUTER SCIENCE DEPARTMENT  
First Semester 2021/2022 Examination

Class: ND II FT, ND II DPT & PT III Computer Science

Course Code: COM 215

Title: Application Packages II

Duration: 2 Hrs.

Instruction: Attempt all questions from Section A and any three from Section B

**Section A**

1. Following are examples of productivity package excepts (a) Firmware (b) Web browsers (c) Electronic mail (d) Groupware
2. Following are software suits except (a) Microsoft Office (b) Microsoft publisher (c) Lotus SmartSuite. (d) WordPerfect Office.
3. All programs in a software suite use the same (a) Input device (b) Output device (c) Processing device (d) Graphical user interface
4. Graphic image can be used to (a) run a program (b) send e-mail (c) surf the web (d) portray ideals
5. Following are examples of graphic excepts (a) light pen (b) typography (c) numbers (d) diagrams
6. Graphics can be \_\_\_\_\_ or artistic (a) realistic (b) functional (c) printable (d) redraw
7. How many Primary keys can have in a table? (a) Only 1 (b) Only 2 (c) Depends on no of Columns (d) Depends on DBA
8. SQL is an acronym of (a) Structure Query List (b) Structure Query Lateral (c) Structure Query Language (d) None of the Above
9. Numerical data can be analysed by the use of (a) Graphic representation (b) calculator (b) computer (d) table
10. Following are graphic representation excepts (a) drawing (b) printmaking (c) Wordart (d) map
11. \_\_\_\_\_ is pixel defined graphics (a) vector graphics (b) raster graphics(c) corel draw graphics (c) photoshop graphics
12. \_\_\_\_\_ is the process of generating an image from a model, by means of computer program (a) rendering (b) pixel (c) shading (d) copying
13. Following are applications of computer graphics excepts (a) Information visualization (b) numerical analysis (c) Scientific visualization (d) Video Games
14. DNG is an acronym of \_\_\_\_\_ (a) digital New Format (b) digital Negative Format (c) digital Network Format (d) digital negative file
15. \_\_\_\_\_ files are usually uncompressed, so they offer the opportunity for extensive post-processing. (a) TIFF (b) JPEG (c) PDF (d)PNG
16. \_\_\_\_\_ are visual images or design on some surface such as wall, canvas, screen, paper or stone to inform, illustrate or entertain
  - a. Graphics b. Pixel c. Computer d. Illustration
17. You can erase any object in AUTO CARD by typing the \_\_\_\_\_ command
  - a. Clean b. Delete c. Backspace d. None of the above
18. Within Microsoft Access there are \_\_\_\_\_ major objects
  - a. Five b. Six c. Three d. None of the above
19. Access allows you to manage your information in one \_\_\_\_\_ file
  - a. Spreadsheet b. Database c. Table d. Form
20. The method for adding detail, surface texture, or color to a computer-generated graphic or 3D model is referred to as \_\_\_\_\_
  - a. Texture mapping b. Color mapping c. Graphics Mapping d. All of the above
21. \_\_\_\_\_ applies to a wide range of programs that allow the user to created drawings, plans, and designs electronically
  - a. Computer Graphics - b. Computer aided design c. Pictorial Design d. Graphics
22. \_\_\_\_\_ is the process of generating an image from a model, by means of computer programs.
  - a. Ray tracing b. 3D projection c. Modeling d. Rendering
23. \_\_\_\_\_ is the smallest graphical picture or unit represented on the computer screen
  - a. Picture b. Image c. Graphics d. Pixels



**THE FEDERAL POLYTECHNIC EDE**  
**SCHOOL OF APPLIED SCIENCES**  
**COMPUTER SCIENCE DEPARTMENT**  
**First Semester 2021/2022 Examination**

Class: ND II FT, ND II DPT & PT III Computer Science

Course Code: COM 215

Duration: 2 Hrs.

Title: Application Packages II

Instruction: Attempt all questions from Section A and any three from Section B

**Section A**

1. Following are examples of productivity package excepts (a) Firmware (b) Web browsers (c) Electronic mail (d) Groupware
2. Following are software suits except (a) Microsoft Office (b) Microsoft publisher (c) Lotus SmartSuite, (d) WordPerfect Office.
3. All programs in a software suite use the same (a) Input device (b) Output device (c) Processing device (d) Graphical user interface
4. Graphic image can be used to (a) run a program (b) send e-mail (c) surf the web (d) portray ideals
5. Following are examples of graphic excepts (a) light pen (b) typography (c) numbers (d) diagrams
6. Graphics can be \_\_\_\_\_ or artistic (a) realistic (b) functional (c) printable (d) redraw
7. How many Primary keys can have in a table? (a) Only 1 (b) Only 2 (c) Depends on no of Columns (d) Depends on DBA
8. SQL is an acronym of (a) Structure Query List (b) Structure Query Lateral (c) Structure Query Language (d) None of the Above
9. Numerical data can be analysed by the use of (a) Graphic representation (b) calculator (b) computer (d) table
10. Following are graphic representation excepts (a) drawing (b) printmaking (c) Wordart (d) map
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15. \_\_\_\_\_ files are usually uncompressed, so they offer the opportunity for extensive post-processing. (a) TIFF (b) JPEG (c) PDF (d) PNG
16. \_\_\_\_\_ are visual images or design on some surface such as wall, canvas, screen, paper or stone to inform, illustrate or entertain  
a. Graphics    b. Pixel                      c. Computer    d. Illustration
17. You can erase any object in AUTO CARD by typing the \_\_\_\_\_ command  
a. Clean    b. Delete    c. Backspace    d. None of the above
18. Within Microsoft Access there are \_\_\_\_\_ major objects  
a. Five    b. Six    c. Three                      d. None of the above
19. Access allows you to manage your information in one \_\_\_\_\_ file  
a. Spreadsheet    b. Database    c. Table                      d. Form
20. The method for adding detail, surface texture, or color to a computer-generated graphic or 3D model is referred to as \_\_\_\_\_  
a. Texture mapping    b. Color mapping    c. Graphics Mapping    d. All of the above
21. \_\_\_\_\_ applies to a wide range of programs that allow the user to created drawings, plans, and designs electronically  
a. Computer Graphics    b. Computer aided design    c. Pictorial Design    d. Graphics
22. \_\_\_\_\_ is the process of generating an image from a model, by means of computer programs.  
a. Ray tracing    b. 3D projection    c. Modeling    d. Rendering
23. \_\_\_\_\_ is the smallest graphical picture or unit represented on the computer screen  
a. Picture    b. Image    c. Graphics    d. Pixels

24. Forms allow you to view data stored in your \_\_\_\_\_  
a. Table b. Database c. Reports d. All of the above
25. The techniques used to display a 2D projection of a 3D discretely sample data set  
a. Projection b. Volume rendering c. Projection rendering d. Graphic rendering
26. The simplest type of form is \_\_\_\_\_  
a. Data entry b. Bound c. Custom d. Switchboard
27. A collection of interrelated records is called \_\_\_\_\_  
a. Database b. Spreadsheet c. Management information System d. Text File
28. CorelDraw is a \_\_\_\_\_ type of graphics software  
a. raster graphics b. vector graphics c. both d. None of these
29. Microsoft Access is a \_\_\_\_\_  
a. Network Database Model b. RDBMS c. ORDBMS d. OODBMS
30. \_\_\_\_\_ allow you to print data based on queries/tables that you have created  
a. Tables b. Queries c. Forms d. Reports

## Section B

### Question One

(a) Define the following:

i. Volume rendering ii. Texture Mapping iii. Rendering iv. Pixel v. Image. (5 Mks)

(b) Mention 5 uses of graphics package. (5Mks)

### Question Two

(a) Discuss any five advantages of software suits (5 mks)

(b) List ten examples of graphic packages (5 mks)

### Question Three

(a) Differentiate between raster and vector graphics (2 mks)

(b) List ten application area of computer graphics (5 mks)

(c) Highlight any six image formats known to you (3 mks)

### Question Four

(a) A multinational company employed you to enlighten them on the tools that are available for use in graphics package. Mention 5 of this tools and what they are used for (5 Mks)

(b) Mention 5 common features of graphics Package. (5 Mks)

### Question Five

(a) What is a field? (2 Mks)

(b) List and explain the view in MS Access (4 Mks)

(c) Define the following i. Report ii. Forms iii. Query iv. Table (4 Mks)

### Question Six

(a) Differentiate between drawing package and painting package (2 mks)

(b) Discuss any five feature of graphic package (5 mks)

(c) Enumerate six uses of graphic packages (3 mks)



# THE FEDERAL POLYTECHNIC EDE

SCHOOL OF APPLIED SCIENCE  
COMPUTER SCIENCE DEPARTMENT  
First Semester 2017/2018 Examination

Course Code: COM 216

Course Title: Hardware Troubleshooting I

Class: ND II FT AND & DPT Computer Science

Duration: 2 Hrs.

Instruction: Attempt all questions from section A and any three from section B.

## Section A

1. Following devices are examples of plug and play except (a) USB keyboard (b) Flash drive (c) Scanner (d) External Hard drive
2. One of the common indicators of a printer's quality is the \_\_\_\_\_ (a) Toner (b) Ink (c) Cartridge (d) DPI
3. \_\_\_\_\_ is an Uninterruptible Power Supply, is a battery backed up unit which provides continuous power incase of a brownout or blackout (a) Stabilizer (b) UPS (c) Power Pack (d) Power Supply
4. When a PC is ON, POST check for the following components except (a) RAM (b) Processor (c) Network Card (d) Video Card
5. \_\_\_\_\_ contains low level software for configuring the system's capabilities and communicating with the hardware (a) BIOS (b) RAM (c) ROM (d) IDE
6. To upgrade a PC Memory, \_\_\_\_\_ determines the type of new memory to be added (a) Socket (b) Memory (c) RAM slot (d) Processor Port
7. A.....is a .....developed to allow for or print serving, application hosting or some other tasks involving many simultaneous connections. (a) Server/ Machine (b) Server/ Measurement (c) Machine/ Server (d) None of the above.
8. The.....is a central chip to the operation of the computer. (a) Operating system (b) GUI (c) Interrupts (d) Central processing unit
9. ....is a diagnostic device that is plugged into the expansion slots and tests the operation of the system as it boots. (a) Operating system (b) Post cards (c) Interrupts (d) Central processing unit.
10. ....uses semiconductor-based integrated circuits to store information. (a) semiconductor memory (b)post cards (c)IDE, EIIDE and SCSII (d)IDE, EIDE and SCSI
11. The three types of hard drives are .....(a) IDE, EIIDE and SICSI (b) IDE, EIDD and SCSI (c) IDE, EIIDE and SCSII(d) IDE, EIDE and SCSI.
12. An .....measures resistance. (a) Voltage (b) Ammeter (c) Ohmmeter (d) Anemometer
13. The .....is the center piece of your system that contains all the circuitry and component either directly on the board or via additional components which connect directly to it. (a) Processor (b) Central processing unit (c) Motherboard (d) None of the above
14. PCI stands for .....(a) Peripheral Component Interconnect (b) Processing Component Interconnect (c) Peripherals Component Interconnect (d) Processor Component Interconnect
15. ....are the two slots that hold the RAM chips of your computer. (a) DIMMM and SIMMM (b) DIMMs and SIMMs (c) DIM and SIM (d) DIMM and SIMM
16. One on the motherboard contains two PS/2 connectors .....  
(a) one on the motherboard and one for mouse (b) one on the keyboard and one for motherboard (c) one on the motherboard and one for keyboard (d) one on the mouse and one for keyboard

17. The Computer hardware component that connects all other components and peripheral is known as .....(a) Hard disk (b) Soft disk (c) Motherboard (d) Cable
18. Is the software that makes the hardware work perfectly (a) Computer driver (b) Operating system (c) Hardware system (d) Hardware driver
19. The most portable storage device is (a) ROM (b) ROM (c) Flash drive (d) Hard driver.
20. We can save our file and date on the cloud (a) Yes (b) No (c) Impossible (d) None of the above

## Section B

### Question One

- (a) Enumerate the printing process for a Laser printer (2 mks)
- (b) What are the preventive maintenance that should apply to a Laser printer? (5 mks)
- (c) Differentiate between Serial and Parallel connection. (3 mks)

### Question Two

- (a) List and Explain type of Printer connection methods and configuration. (3 mks)
- (b) The computer keeps on rebooting again and again, you are ask to state the likely problem and provide a possible solution in other to prevent such occurrence. (5 mks)
- (c) State the likely problem that can cause the speed or performance of computer system to be slowed. (2 mks)

### Question Three

Write Short notes on each of the following:

- (i) Multimeter (2 ½ mks)
- (ii) Cable tester (2 ½ mks)
- (iii) Ammeter (2 ½ mks)
- (iv) Ohmmeter (2 ½ mks)
- (v) Postcard (2 ½ mks)

### Question Four

- (a) What do you understand by CMOS? State its importance (3 mks)
- (b) Define the term POST Card and state the two types of errors emanate from POST Card. (4 mks)
- (c) You are ask to provide a possible solution to a printer that fail to print a document. Enumerate the possible step you need to solve this particular problem. (3 mks)

### Question Five

Enumerate the diagnostic procedure for the following Computer components:

- (a) Keyboard (2 mks)
- (b) Mouse (2 mks)
- (c) Speaker ((2 mks)
- (d) VDU (2 mks)
- (e) Printer (2 mks)

THE FEDERAL POLYTECHNIC, EDE  
SCHOOL OF APPLIED SCIENCES, DEPARTMENT OF STATISTICS  
FIRST SEMESTER EXAMINATION 2021/2022

COURSE TITLE: STATISTICS FOR COMPUTER II

COURSE CODE: COM216

CLASS: ND II COMPUTER SCIENCE

Instructions:

- (i) Answer any four question (ii) All question carry equal mark (iii) Time Allowed 2 Hours

QUESTION ONE ✓

- a) What do you understand by SPSS? (5 marks)  
b) List and explain types of view in SPSS. (5 marks)  
c) Itemise any five (5) uses of SPSS. (5 Marks)

QUESTION TWO ✓

The following data are to be input into SPSS package for analysis:

- i. Gender of the students observed: Male ( 40 ) Female ( 160 )  
ii. Age of the students observed: 21-25 ( 132 ) 26-30 ( 62 ) 31 and above ( 6 )  
iii. I have difficulties in understanding SPSS in theory explanation.

Strongly Agree ( 128 ) Agree ( 60 ) Disagree ( 19 ) Strongly Disagree ( 3 )

- a) The data above can be categorized as \_\_\_\_\_ in terms of data collection. (2 marks)  
b) List the steps to input the above data into SPSS (13 marks)

QUESTION THREE ✓

The table below shows the frequency distributions of marital status of 97 respondents.

|          | Frequency | Marital Status |                  |                       |
|----------|-----------|----------------|------------------|-----------------------|
|          |           | Percentage     | Valid percentage | Cumulative percentage |
| Single   | 17        | 17.5           | 17.5             | 17.5                  |
| Married  | 59        | 60.8           | 60.8             | 78.4                  |
| Divorced | 20        | 20.6           | 20.6             | 99.0                  |
| Widowed  | 1         | 1.0            | 1.0              | 100.0                 |

- a) What is the name of the distribution above? (3 marks)  
b) Is there any missing value? If yes how many? (3 marks)  
c) What is the percentage of married people who answered the questionnaires? (3 marks)  
d) How many people are divorced among the respondents? (3 marks)  
e) How many people are observed? (3 marks)

60.8  
17.5  
72.3

#### QUESTION FOUR

| ANOVA      |       |               |             |       |       |
|------------|-------|---------------|-------------|-------|-------|
| Model      | df    | Sum of Square | Mean Square | F     | Sig   |
| Regression | 1     | 7.617         | -----       | ----- | 0.000 |
| Residual   | 95    | -----         | 0.161       | ----- | ----- |
| Total      | ----- | 22.887        | -----       | ----- | ----- |

Calculate

- i) The Sum of Square residual (3 marks)
- ii) Total Observation (3 marks)
- iii) Mean Square regression (3 marks)
- iv) F calculated (3 marks)
- v) Comment on the significant value (3 marks)

#### QUESTION FIVE

A researcher intends to investigate a topic "Is Statistics a good course" here is the outcome of the analysis

| Model                                                                    | Unstandardize coefficient |                | Standardize Coefficient |        |       |
|--------------------------------------------------------------------------|---------------------------|----------------|-------------------------|--------|-------|
|                                                                          | B                         | Standard error | Beta                    | t      | Sig   |
| Constant                                                                 | 3.825                     | 0.122          | -----                   | 31.304 | 0.000 |
| Employees commit                                                         | 0.587                     | 0.085          | 0.577                   | 6.884  | 0.000 |
| a) State the hypothesis for the research topic above (3 marks)           |                           |                |                         |        |       |
| b) Fit the regression model for the analysis above (3 marks)             |                           |                |                         |        |       |
| c) If x = 35 find y (3 marks)                                            |                           |                |                         |        |       |
| d) Comment on the significant value above (3 marks)                      |                           |                |                         |        |       |
| e) Is the above a simple linear or multiple linear regression? (3 marks) |                           |                |                         |        |       |

#### QUESTION SIX

- a) Write out the model for simple linear regression (3 marks)
- b) Here are the number of students brought laptop for COM 216 and COM 215 practical for five weeks

|             |   |   |   |   |   |
|-------------|---|---|---|---|---|
| COM 216 (y) | 4 | 5 | 6 | 8 | 7 |
| COM 215 (x) | 2 | 3 | 3 | 4 | 3 |

Use Pearson's correlation coefficient to find the correlation between x and y (12 marks)

$$a = \frac{\sum x}{n}, b = \frac{\sum x \sum y}{n}$$



**THE FEDERAL POLYTECHNIC EDE**  
**SCHOOL OF APPLIED SCIENCES**  
**COMPUTER SCIENCE DEPARTMENT**  
**First Semester 2021/2022 Examination**

**Class: ND II FT, ND II DPT & PT III Computer Science**

**Title: Application Packages II**

**Instruction: Attempt all questions from Section A and any three from Section B**

**Course Code: COM 215**

**Duration: 2 Hrs.**

**Section A**

1. Following are examples of productivity package excepts (a) Firmware (b) Web browsers (c) Electronic mail (d) Groupware
2. Following are software suits except (a) Microsoft Office (b) Microsoft publisher (c) Lotus SmartSuite, (d) WordPerfect Office.
3. All programs in a software suite use the same (a) Input device (b) Output device (c) Processing device (d) Graphical user interface
4. Graphic image can be used to (a) run a program (b) send e-mail (c) surf the web (d) portray ideals
5. Following are examples of graphic excepts (a) light pen (b) typography (c) numbers (d) diagrams
6. Graphics can be \_\_\_\_\_ or artistic (a) realistic (b) functional (c) printable (d) redraw
7. How many Primary keys can have in a table? (a) Only 1 (b) Only 2 (c) Depends on no of Columns (d) Depends on DBA
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10. Following are graphic representation excepts (a) drawing (b) printmaking (c) Wordart (d) map
11. \_\_\_\_\_ is pixel defined graphics (a) vector graphics (b) raster graphics(c) corel draw graphics (c) photoshop graphics
12. \_\_\_\_\_ is the process of generating an image from a model, by means of computer program (a) rendering (b) pixel (c) shading (d) copying
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21. \_\_\_\_\_ applies to a wide range of programs that allow the user to created drawings, plans, and designs electronically  
a. Computer Graphics    b. Computer aided design    c. Pictorial Design    d. Graphics
22. \_\_\_\_\_ is the process of generating an image from a model, by means of computer programs.  
a. Ray tracing    b. 3D projection    c. Modeling    d. Rendering
23. \_\_\_\_\_ is the smallest graphical picture or unit represented on the computer screen  
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24. Forms allow you to view data stored in your \_\_\_\_\_  
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25. The techniques used to display a 2D projection of a 3D discretely sample data set  
a. Projection b. Volume rendering c. Projection rendering d. Graphic rendering
26. The simplest type of form is \_\_\_\_\_  
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30. \_\_\_\_\_ allow you to print data based on queries/tables that you have created  
a. Tables b. Queries c. Forms d. Reports

#### **Section B**

##### **Question One**

(a) Define the following:

i. Volume rendering ii. Texture Mapping iii. Rendering iv. Pixel v. Image. (5 Mks)

(b) Mention 5 uses of graphics package. (5Mks)

##### **Question Two**

(a) Discuss any five advantages of software suits (5 mks)

(b) List ten examples of graphic packages (5 mks)

##### **Question Three**

(a) Differentiate between raster and vector graphics (2 mks)

(b) List ten application area of computer graphics (5 mks)

(c) Highlight any six image formats known to you (3 mks)

##### **Question Four**

(a) A multinational company employed you to enlighten them on the tools that are available for use in graphics package. Mention 5 of this tools and what they are used for (5 Mks)

(b) Mention 5 common features of graphics Package. (5 Mks)

##### **Question Five**

(a) What is a field? (2 Mks)

(b) List and explain the view in MS Access (4 Mks)

(c) Define the following i. Report ii. Forms iii. Query iv. Table (4 Mks)

##### **Question Six**

(a) Differentiate between drawing package and painting package (2 mks)

(b) Discuss any five feature of graphic package (5 mks)

(c) Enumerate six uses of graphic packages (3 mks)



**THE FEDERAL POLYTECHNIC, EDE**  
**COMPUTER SCIENCE DEPARTMENT**  
**FIRST SEMESTER EXAMINATION (2021/2022 SESSION)**

**COURSE TITLE:** Computer System Troubleshooting I (COM216) **DATE:** 9<sup>th</sup> Sept., 2022  
**CLASS:** ND PT YRII **TIME ALLOWED:** 2hrs

**SECTION A (INSTRUCTION: Answer all)**

1. \_\_\_\_\_ is the reviewing, diagnosing and identifying operational or technical problems within a hardware device or equipment.
2. \_\_\_\_\_ is the process of scanning, identifying, diagnosing and resolving problems errors and bugs in software.
3. \_\_\_\_\_ is purposely for examining the state or locating problems with the hardware or operating system environment that is running on/in.
4. \_\_\_\_\_ is the tool for measuring instrument that can measure multiple electrical properties.
5. What is the Dell BIOS beep code sequence that describe video memory test failure?
6. Initial set of operation that a computer system performs when power is switched on is called \_\_\_\_\_.
7. A systematic approach to problem solving that is often used to find and correct issues with complex machines, electronics, computers and software systems is known as \_\_\_\_\_.
8. What is the full form of the acronym BIOS?
9. \_\_\_\_\_ is a series of test conducted on the computer's main memory input/output device, disk drives and the hard disk.
10. CMOS is an acronym for \_\_\_\_\_.
11. \_\_\_\_\_ the part of the system software that includes the instructions that the computer uses to accept input and output
12. SATA in full is \_\_\_\_\_.
13. \_\_\_\_\_ is an interface between the hardware and the user.
14. What is the Dell BIOS beep code sequence that describe keyboard controller test failure?
15. A series of tests conducted on the computer's main memory, input/output devices, disk drives and other required component is called \_\_\_\_\_.

## **SECTION B (INSTRUCTION: Attempt any three)**

### **QUESTION ONE**

- a. Define CHKDSK 2marks
- b. Differentiate between Task Manager and Device Manager 6marks
- c. As a result of several issues, a computer system may fail to start properly. State **FOUR** likely causes of computer startup failure. 4marks
- d. Enumerate **SIX** troubleshooting and maintenance tools. 3marks

### **QUESTION TWO**

- a. List **SIX** computer component that can be improvised when the need arises. 6marks
- b. State **TWO** symptoms and **TWO** causes of a computer processor failure 4marks
- c. Explain briefly "Computer Booting". Hence, mention types of booting you know. 3marks
- d. Define Diagnostic program 2marks

### **QUESTION THREE**

- a. Due to the complexity of modern computing systems, a wise technician will have and follow a troubleshooting methodology. Highlight six-step troubleshooting methodology CompTIA recommends. 6marks
- b. Differentiate between hardware troubleshooting and software troubleshooting 6marks
- c. List **SIX** upgradeable parts of a functional computer system 3marks

### **QUESTION FOUR**

- a. Differentiate between Cold booting and warm booting 3marks
- b. The speaker of a functional desktop computer dedicated for music editing suddenly stop making sound after update. State **TWO** likely cause(s) and **TWO** suggested solution(s). 4marks
- c. List the booting process of a computer system. 6marks
- d. Define the term POST? 2marks

### **QUESTION FIVE**

- a. State **FIVE** symptoms of hard drive failure 5marks
- b. State **TWO** importance of hard disk partitioning 2marks
- c. State **THREE** symptoms of RAM failure 3marks
- d. In a tabular form, describe any **FIVE** beep codes/power led blinking for Dell systems 5marks



**THE FEDERAL POLYTECHNIC EDE**  
**SCHOOL OF APPLIED SCIENCES**  
**COMPUTER SCIENCE DEPARTMENT**  
**First Semester 2021/2022 Examination**

**Class: ND II FT & ND II DPT Computer Science**  
**Title: System Programming**

**Course Code: COM 212**  
**Duration: 2 Hrs.**

**Instruction: Attempt all questions from Section A and any three from Section B**

**Section A**

1. This is the first layer of software loaded into \_\_\_\_\_ when a system boots or starts up (a) hard disk (b) memory  
(c) motherboard (d) CPU
2. Access provided by kernel in operation system include the following except (a) disk access (b) file printing  
(c) memory management (d) task scheduling
3. The operating system helps to improve the \_\_\_\_\_ of the work and helps to save a lot of time by reducing the complexity. (a) efficiency (b) memory (c) hardware (d) throughput
4. Operating System makes \_\_\_\_\_ available for application when required (a) file (b) disk (c) memory (d) layer
5. Operating system needs to ensure that system \_\_\_\_\_ are utilized efficiently (a) printer (b) CPU (c) processor (d) resources
6. JCL is an acronym for (a) Job Computer Language (b) Job Control Languages (c) Job Control Linux (d) Job Centre Language
7. A language translator converts a high level language program called (a) Target program (b) Source program  
(c) final program (d) source language
8. Utility program or service program are \_\_\_\_\_ (a) general purpose program (b) application software (d) device drive (d) printing software
9. Operating system offer on-screen helps messages to remind the user on how to use (a) system functions , (b) system file (c) system program (d) system interrupt
10. \_\_\_\_\_ is an area of the display screen set aside to show the content or status of files (a) screen (b) VDU (c) interface (d) window
11. CPU is assigned to processes (tasks) by the (a) operating system (b) device driver (c) utility program (d) language translator
12. In a multiprogramming system, *process scheduling* is the management of the CPU by switching control among the various processes according to some (a) priority (b) system address (c)scheduling policy (d) operating system
13. \_\_\_\_\_ function of an operating system is an intermediate stage between the user program and the I/O supervision. (a) resource management (b) file management (c) memory management (d) hardware management
14. \_\_\_\_\_ is the task of selecting the next user job to begin execution. (a) file scheduling (b) file management  
(c) job scheduling (d) job management
15. 2<sup>nd</sup> generation operating system's features include the following except (a)printing control (b)  
Multiprogramming (c) Multiprocessing (d) Virtual storage
16. In \_\_\_\_\_ generation the highly symbolic mnemonics acronym-oriented user environment was replaced with menu-driven system that guided users through various available options in English language (a) 1<sup>st</sup>  
(b) 2<sup>nd</sup> (c) 3<sup>rd</sup> (d) 4<sup>th</sup>
17. \_\_\_\_\_ DOS command shows the name or changes the current working directory (a) CHDIR (b) CHDR (c)  
CDR (d) CHIDR
18. \_\_\_\_\_ DOS command Displays the total amount of memory usages (a) MEM UM (b) MEM (c) MUM  
(d) MIM
19. Windows 1.0-2.0 was introduced in \_\_\_\_ (a) 1958-1992 (b) 1985 – 1993 (c) 1985-1992 (d) 1986-  
1992
20. Windows XP was released in (a) 2001 (b) 2010 (c) 2002 (d) 2003
21. Windows 10 was the successor to (a) Windows 7 (b) Windows 8 (c)Windows 9 (d) Windows 9.1

22. WHS is an acronym for (a) Windows Hardware Server (b) Wide Hardware System (c) Windows Home Server (d) Wireless Home System
23. \_\_\_\_\_ make it possible for all connected components and external add-ons to perform their intended tasks and as directed by the OS. (a) Device driver (b) system software (c) operating system (d) language translator
24. Data structure of a process is called (a) Process file (b) process control block (c) process information (d) process resources
25. In a multitasking computer system, processes may occupy a variety of \_\_\_\_\_ (a) memory (b) resources (c) hardware (d) states
26. A process is in \_\_\_\_\_ state if it currently has the CPU (a) Ready (b) Blocked (c) running (c) suspend
27. A \_\_\_\_\_ process may be suspended only by another process (a) Ready (b) Blocked (c) running (c) suspend
28. \_\_\_\_\_ is a computer program, which converts each high-level program statement into the machine code (a) Compiler (b) Interpreter (c) Assembler (c) Utility Software
29. \_\_\_\_\_ is the first phase when compiler scans the source code in compilation process. (a) Lexical analysis (b) Syntax analysis (c) semantic analysis (d) intermediate generation
30. The first part of the lexical analysis operation is removal of any non-program (a) Source code (b) target code (c) elements (d)file

### **Section B: Attempts any three questions**

#### **Question One**

- (a) List any six advantages of operating system (6 mks)  
 (b) List and explain the two views of operating system (4 mks)

#### **Question Two**

- (a) Enumerate any five components that operate system interface with (2 ½ mks)  
 (b) List the five components of system program, explain the roles of each of each component (7 ½ mks)

#### **Question Three**

- (a) Copy and complete the table below: (5 mks)

| OPERATION                 | UNIX | DOS |
|---------------------------|------|-----|
| Copy files                |      |     |
| Display directory         |      |     |
| Rename File               |      |     |
| Compare files             |      |     |
| Display contents of files |      |     |

- (b) In tabular form, write five differences between compiler and interpreter (5mks)

#### **Question Four**

- (a) Discuss and five advantages of MS-DOS (5 mks)  
 (b) Explain the function of the following DOS commands (5 mks)
- MEM
  - MKDIR
  - MODE
  - MOVE
  - MSBACKUP

#### **Question Five**

- (a) List any ten examples of system software (5 mks)  
 (b) Explain any five types of operating system known to you (5 mks)



**THE FEDERAL POLYTECHNIC EDE**  
**SCHOOL OF APPLIED SCIENCES**  
**COMPUTER SCIENCE DEPARTMENT**  
**First Semester 2017/2018 Examination**

**Course Title:** Application Packages II

**Course Code:** COM 215

**Class:** ND II FT & DPT.

**Duration:** 2. Hrs.

**Instruction:** Attempt all questions from this Section

**Section A**

1. We use \_\_\_\_\_ of the Data Editor window to specify the variable names and their attributes. (a) Variable data (b) Variable Value (c) Variable View (d) variable name
2. In SPSS the \_\_\_\_\_ is a worksheet used for entering and editing data. (a) Data Center (b) Data Editor (c) Data Worksheet (d) Data Format
3. Photoshop is best used for the design of the following excepts. (a) Poster (b) Flyer (c) Sticker (d) Typesetting
4. Following are data types in SPSS excepts (a) Numeric (b) Date (c) Year (d) Custom Currency
5. One of the features of layer panel in Photoshop is \_\_\_\_\_ (a) Locking (b) Printing (c) Color (d) Design
6. \_\_\_\_\_ is used to inform SPSS about the details associated with each variable name. (a) Heading (b) Label (c) Value (d) Number
7. Which one of this software that is suitable to produce materials such as newsletters, brochures, manuals, and books with several type styles, graphics, and colours on each page. (a) Database management package (b) Graphic package (c) Desktop Publishing (d) Spreadsheet package
8. In Photoshop \_\_\_\_\_ is the dimension of your document and can be set using pixels, inches or others. (a) Colour (b) Size (c) Design (d) Poster
9. Following are file types Formats in Photoshop excepts. (a) .XLS (b) .TFF (c) .PCT (d) .PSD
10. In Photoshop the save for web option allows you to \_\_\_\_\_ the files for size while seeing the results to quality. (a) Design (b) Customize (c) Simplify (d) optimize
11. SPSS can read data from one of the following (a) MS Power Point (b) MS Access (c) MW Word Table (c) Visual Basic
12. The following file formats are used by SPSS excepts. (a) .dta (b) .sys (c) .spss (d) .por
13. An SPSS dataset is made up of a number of observations, each of which contains a \_\_\_\_\_ for each variable in the dataset. (a) Value (b) Number (c) Data (d) Figure
14. Each variable needs to be given a \_\_\_\_\_ that is used in describing the variable to SPSS. (a) Variable data (b) Variable Value (c) Variable View (d) Variable Name
15. The database object which is primarily used to enter or display data in a database is know \_\_\_\_\_ (a) Table (b) Form (c) Record (d) Database
16. The field that is used to uniquely identify a records in a database is known as \_\_\_\_\_ (a) Foreign key (b) Primary key (c) Auto generation (d) All of the above
17. A window that shows the design of these database objects is called \_\_\_\_\_ (a) Design view (b) Datasheet view (c) Data type (d) None of the above
18. The methods of ask questions about information stored in your tables is called \_\_\_\_\_ (a) Table (b) Queries (c) Record (d) Database
19. Database management software an attempt to define and organize the content, relationships, and structure of the data needed is called \_\_\_\_\_ (a) database interrogation (b) Application development (c)

- Database development (d) Database maintenance**
20. Access the data in a database for information retrieval and report generation is known as \_\_\_\_\_ (a) database interrogation (b) Application development (c) Database development (d) Database maintenance

**Section B. Attempt question one and any other two**

**Question One**

| Matric_No  | Surname | Middlename | Department | Phone_No    | COM222 | COM223 |
|------------|---------|------------|------------|-------------|--------|--------|
| CS20143455 | ADEWALE | ALAO       | COM SC     | 08030456378 | 67     | 67     |
| ST20140055 | YUSUFF  | TAIWO      | SLT        | 08036556378 | 54     | 87     |
| S20143415  | AKANO   | KEHINDE    | COM SC     | 08030477378 | 87     | 49     |
| S20149455  | ISIAQ   | YEMISI     | COM SC     | 08030456978 | 48     | 87     |
| T20143457  | OLAOLU  | TUNDE      | STAT       | 08030456078 | 87     | 63     |
| S20143458  | ADIGUN  | ADEBAYO    | COM SC     | 08030453378 | 56     | 55     |
| T20143453  | ODUNOLA | WALE       | STAT       | 08044456378 | 70     | 59     |
| T20143452  | IGE     | IDOWU      | STAT       | 08030456375 | 59     | 76     |

- a) Write SQL statement to create the table above (4 mks)  
 (b) Write SQL statement to extract the record of students who score 50 and above in COM222 (3 mks)  
 (c) Write SQL statement to extract the records of students from computer science and who scores above 50 in COM223 (3 mks)

**Question Two**

- (a) What do you understand by Computer Graphics? Mention any two types. (3 ½ mks)  
 (b) Mention two example each of the following:  
 (i) Word Processing Package (ii) Spreadsheet Package (iii) DBMS (iv) Desktop Package (4 mks)  
 (c) Highlight any Five application areas of computer graphics (2 ½ mks)

**Question Three**

You are recently employed by NewTech Komputer Ltd., your first assignment as a system programmer is to develop a payroll system that will enhance the automation and real time approach for the payment of the company's staff salary. Discuss any five factors you need to take into consideration while developing and implementing the software. (10 mks)

**Question Four**

- (1) (a) State six basic rules to allow excel data to be read into SPSS structure (3 mks)  
 (1) Highlight basic steps to carry out the following operations in SPSS (2mks)  
 (i) Saving an SPSS output file (ii) Saving an SPSS data file (iii) Generate Frequency table (5 mks)

**Question Five**

- (a) Define the following:  
 (i) Database (ii) Record (iii) Field (iv)Field name (6mks)  
 (b) Highlight the basic steps to carry out the following operation using Microsoft access  
 (i) Setting a primary key (2 mks)(ii) Sorting Records in a table (2 mks)

**FEDERAL POLYTECHNIC EDE, OSUN STATE**  
**SECOND SEMESTER EXAMINATION, 2021/2022 ACADEMIC SESSION**  
**COMPUTER SCIENCE DEPARTMENT**  
**CLASS: ND II FT, ND II DPT, ND PT YR II**

**Duration: 2hrs      UNIT: 3**

**Instruction: Answer any Four (4) Questions**

✓(1a) Define MIS (2mks)

✓(1b) Information systems are products of Information Technology Development "Discuss" (4mks)

(1c) Highlight five (5) functions of Information System (5mks)

(1d) Discuss the Information System Resources. (4mks)

(2a) what is a System? (3mks)

(2b) explain the Taxonomy of a system (3mks)

(2c) List out the different types of information (6mks)

(2d) Write about the fundamentals information system (3mks)

✓(3a) Discuss Accounting Information System (3mks)

(3b) List and Explain Classification of information System (6mks)

(3c) List and Explain the major Dimensions of Information System (3mks)

(3d) With the aid of a diagram show the information/management hierarchy (3mks)

✓(4a) What is Information? (3mks)

(4b) What are the main objectives of Management (3mks)

(4c) What are the Limitations of MIS (3mks)

(4d) Explain the following

i. Decision Support System (2mks)

ii. Expert Support System (2mks)

iii. Executive Information System (2mks)

(5a) Define Management (3mks)

(5b) With the aid of a well labeled diagram, show the conversion of data into Decision (3mks)

(5c) What are the characteristics of a good Information (5mks)

(5d) Discuss the need of management information system (4mks)

✓(6a) With the aid of a Diagram, Explain Expert System (3mks)

(6b) Mention four (4) characteristics of Expert System (2mks)

(6c) List and Explain the Component of Expert System (6mks)

• (6d) List the Advantages and Disadvantages of Expert System (4mks)

**FEDERAL POLYTECHNIC, EDE  
SCHOOL OF APPLIED SCIENCES  
DEPARTMENT OF COMPUTER SCIENCE  
2021/2022 SECOND SEMESTER EXAMINATION**



**Course Title: WEB TECHNOLOGY**

**Course Code: COM 225**

**Level: NDII (FT, DPT) Comp. Science**

**Duration: 2Hrs Instruction: Answer ALL.**

**Question in Section A and Any FOUR Questions in**

**Section B**

**SECTION A**

**(Instructions: answer all questions in section A. (Write Yes or No)**

- (1) Cascading is how web pages are visually styled.
- (2) A website cannot use more than a template
- (3) Web pages of static website are not stored on the server
- (4) HTML divides the text of a document into blocks called element
- (5) The pages of a website are accessed from different root
- (6) Dynamic website does not display the same information to the visitor
- (7) The first web browser was developed in the year 1991
- (8) In order to add picture to a page an empty tag `<image src>` can be used
- (9) MySQL is not an open source database
- (10) Phishing is a form of social engineering, characterized by attempts to fraudulently acquire sensitive information.
- (11) JavaScript governs certain behaviors on websites and can be used for a variety of interactions and features.
- (12) You should take the appearance of your website lightly.

- (13) The uptime rate of your website is another quality to consider.
- (14) The security level of your website is not paramount to the user.
- (15) When considering Compatibility Mobile App must not be accessible to the Android phones.
- (16) Website or Blogs doesn't need Archive of information to search by the visitors.
- (17) `<TD>, <TR>, <TH>` are the only elements used in HTML Table.
- (18) `<input type="radio">` defines a radio station on the Web.
- (19) The act of cyber-crime takes place in the virtual world.
- (20) Data Diddling is changing data prior or during input into a Typewriter.

**SECTION B**  
**(ANSWER ANY FOUR (4) QUESTIONS IN SECTION B)**

**QUESTION ONE**

- (a) Define the following:
  - (i) Website Design (ii) Internet, (iii) Web page
  - (iv) Internet (v) Web Page **2<sup>1/2</sup> Mrks**
- (b) List Five (5) Elements of Web Design. **2<sup>1/2</sup> Mrks**
- (c) Draw annotated diagram of interaction between the client and server. **3 Mrks**
- (d) Write an HTML Web Page Structure. **2 Mrks**

**QUESTION TWO**

- (a.) List and explain six (6) steps in Web development life cycle (3 Marks)
- (b.) Define a Web Application. (1 marks)
- (c.) List six (6) features of a good web browser (3 Marks)
- (d) Use the following heading to tell us Covid-19 Precautions (3 Marks)

**Wearing nose cover**

**Maintain hygiene**

**Use hand sanitizer**

**Social distancing**

**Take vaccines**

**Washing your hand often**

### QUESTION THREE

(a.) Write Any Four (4) HTML Form Attribute with at least a practical example to illustrate each of them. 4 Mrks

(b.) Define Website Blueprint 2 Mrks

(c.) Mention the three (3) main components of a website blueprint 3 Mrks

(d.) Write HTML form Syntax 1 Mrk

### QUESTION FOUR

(a) Mention any four (4) professional tools for web design  
(2mks)

(b) Write HTML Code for the Table Below

| GNS 228 | COM 412 | COM 205 | COM 1144 |
|---------|---------|---------|----------|
| 88      | 50      |         | 80       |
| 46      | 77      |         | 87       |
| 58      | 64      |         | 44       |
| 51      | 72      | 33      | 59       |

(2mks)

(c) Highlight any six (6) qualities of good web designers  
(3mks)

(d) List and explain three (3) ways by which CSS be added to HTML elements. (3 mks)

### QUESTION FIVE

(a) Write the HTML code for the lists displayed below:

o Osun State

a. Ikorun

b. Ikorere

o Oyo State

a. Egbedore

b. Ibarapa

(4<sup>1/2</sup> mks)

(b) Mention 5 factors to be considered while creating a User-Friendly Design (2<sup>1/2</sup>)

(c) List and Explain the two broad divisions of web development. (3 mks)

### QUESTION SIX

(a) Write the HTML code to demonstrate the use of Anchor tag for the following

i. Creating a web link that opens in a new window (2 mks)

ii. Making image an hyperlink (2 mks)

iii. Creating a web link that opens in the same window. (2 mks)

(b) Mention four (4) qualities of a good web designer(4mks)

# THE FEDERAL POLYTECHNIC EDE OSUN STATE NIGERIA

## SCHOOL OF APPLIED SCIENCES

### SECOND SEMESTER EXAMINATION

COURSE CODE: COM 226

NO OF QUESTION: 6

CLASS: RPT YEAR 111

TIME ALLOWED: 2HOURS

INSTRUCTION: ANSWER ANY FOUR QUESTION

DATE: 2021/2022 SESSION

*Please note that you are not allowed to bring in mobile phone(s) to examination hall. Non-compliance will amount to examination misconduct and attract stiff penalty.*

- |                                                                                                                                                                                                                  |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1. a. what is network                                                                                                                                                                                            | 2marks |
| b. List eight (8) Component of Network failure                                                                                                                                                                   | 8marks |
| c. How do you remedy any of the above problems                                                                                                                                                                   | 2marks |
| d. State three importance of USB port?                                                                                                                                                                           | 3marks |
| 2. a. What is computer troubleshooting                                                                                                                                                                           | 2marks |
| b. State six steps that is involve in computer troubleshooting?                                                                                                                                                  | 6marks |
| c. What is the different between serial and parallel ports?                                                                                                                                                      | 2marks |
| d. State five computer problems that can get really your skin.                                                                                                                                                   | 5marks |
| 3. a. Highlight four (4) error messages BIO issues when hardware is not working properly                                                                                                                         | 4marks |
| b. Discuss the primary causes of memory failure                                                                                                                                                                  | 6marks |
| c. what are the common cause of computer system failures and explain two                                                                                                                                         | 5marks |
| d. Briefly explain check disk                                                                                                                                                                                    | 3marks |
| 4. a. Explain causes of system                                                                                                                                                                                   | 5marks |
| b. Explain variety of software diagnostic Test                                                                                                                                                                   | 5marks |
| c. what does Power on Self Test (POST) mean                                                                                                                                                                      | 2marks |
| 5. a. What is computer system virus?                                                                                                                                                                             | 2marks |
| b. state the effect of virus to the computer                                                                                                                                                                     | 3marks |
| c. List seven (7) sign of a computer that has virus                                                                                                                                                              | 7marks |
| d. name three antivirus you know                                                                                                                                                                                 | 3marks |
| 6. a. Mary complains that her laptop is overheating and she checked and said that all the internal cooling systems were working properly. What do you think could be cause of the problem and possible solution? | 5marks |
| b. if your computer monitor turns on but did not seem to display an image or even the built-in screen. What can possibly wrong with system                                                                       | 5marks |
| c. What are the two computer problems easily diagnosed just by listening to your computer                                                                                                                        | 5marks |



THE FEDERAL POLYTECHNIC, EDE.  
DEPARTMENT OF COMPUTER SCIENCE.  
2021/2022 FIRST SEMESTER EXAMINATION

Course Title: RESEARCH TOPICS  
Class: ND II FT & DPT

Course Code: GNS 228  
Time: 2hrs

**INSTRUCTION:** Answer any four (4) questions

**QUESTION 1**

- a) According to D. Slesinger and M. Stephenson (1930) in the Encyclopedia of Social Sciences, research was defined as?
- b) Define Research Ethics
- c) List the steps involved in the collection of Data
- d) List four (4) characteristics of a good questionnaire

**QUESTION 2**

- a) Write short notes on the following types of survey questions
  - i) Open-Ended questions
  - ii) Close-Ended questions
- b) Define Problem Statement. Hence list four (4) features of a good problem statement
- c) Define Data Collection
- d) Give a diagram of the construction of a questionnaire

**QUESTION 3**

- a) Write short notes on the following
  - i) Questionnaire
  - ii) Schedule
- b) In a tabular form, give five (5) differences between a Questionnaire and a Schedule
- c) Define Data Process
- d) List five (5) guidelines for preparing questionnaire

Problem statement are problems that needs to be addressed.

#### QUESTION 4

Define the following terms:

- a) Research
- b) Research Method
- c) Research Methodology

Hence, clearly state the difference between Research Method  
and Research Methodology

- d) List five (5) Data Collection Techniques

#### **QUESTION 5**

Write short notes on the following types of research

- a) Descriptive vs Analytical Research
- b) Descriptive vs Analytical Research
- c) Applied vs Fundamental Research
- d) Conceptual vs Empirical Research
- e) Quantitative vs Qualitative Research

#### QUESTION 6

- a) List and explain the steps in research process
- b) Write short notes on the following:
  - i) Aim of Study
  - ii) Objectives of study
- c) Define short note on
  - i) Hypothesis

**THE FEDERAL POLYTECHNIC EDE,  
SCHOOL OF APPLIED SCIENCES,  
COMPUTER SCIENCE DEPARTMENT**

**SEMESTER: 2nd Semester**

**COURSE: Com 221**

**LEVEL: ND CLASS: RPT III**

**TIME: 2 ½ HRS**

**Instructions: Carefully read through the instruction in each Sections before you answer the questions**

**SECTION A (Answer All Questions in this Section)**

- (1) State the SQL syntax for creating a Table (1 Mark)
- (2) State the SQL syntax for inserting Data into a Table (1 Mark)
- (3) Write SQL Program using "CREATE TABLE" in the Table below (Note: the name of the table is CUSTOMER) (4 Marks)

| CUSTOMER   |           |           |             |           |              |
|------------|-----------|-----------|-------------|-----------|--------------|
| First Name | Last Name | Address   | Phone       | Post Code | Post Address |
| Ade        | Oluwole   | Oke Compd | 07060619149 | 4434      | Orileowu     |

- (4) Write SQL Program using "INSERT INTO" to display PRODUCT Table below (4 Marks)

| PRODUCT      |                     |       |              |
|--------------|---------------------|-------|--------------|
| Product Name | Product Description | Price | Product Code |
| Product A    | This is Product A   | 1000  | A-1234       |
| Product B    | This is Product B   | 1000  | B- 1234      |
| Product C    | This is Product C   | 1000  | C- 1234      |

- (5) Use the table below to answer the following questions (i - v)

P Table (Part)

| Pno | Deser  | Color |
|-----|--------|-------|
| P1  | Widget | Blue  |
| P2  | Widget | Red   |
| P3  | Dongle | Green |

S Table ( Suppliers )

| Sno | NAME   | CITY   |
|-----|--------|--------|
| S1  | Pierre | Paris  |
| S2  | John   | London |
| S3  | Mario  | Rome   |

SP Table (Supplier and Part)

| Sn0 | Pn0 | Qty  |
|-----|-----|------|
| S1  | P1  | Null |
| S2  | P1  | 200  |
| S3  | P1  | 1000 |
| S3  | P2  | 200  |

- (i) SELECT name FROM S WHERE city='Rome' (2 Marks)
- (ii) SELECT name supplier, city location FROM S (2 Marks)
- (iii) SELECT\* FROM SP WHERE Qty>=200 (2 Marks)
- (iv) SELECT\* FROM SP WHERE Qty BETWEEN 50 and 500 (2 Marks)
- (v) SELECT name FROM S WHERE City IN('Rome','Paris') (2 Marks)

**SECTION B (Answer Any Four Questions in this Section)**

**QUESTION ONE**

- (a.) A student is an entity, offering com 221 Course in the Department of computer science, by displaying your Name, Matric. and Age, represent the above in an E-R Model diagram to list 4 types of Entity Relation Mode (Hints: use Dno, Dname, Dcourse in the Department). (10 Marks)

**QUESTION TWO**

- (a.) (i) Name 3 SQL Statement Clause, (ii) List 4 People who deal with databases (5 Marks)  
(b.) Enumerate Any Five (5) Database management systems tools. (5 Marks)

**QUESTION THREE**

- (a.) Jnetwork Computer Technology staff with Name; Street, City is working in Budget Department of the Company since 2016, illustrate these for a staff using E-R Model Symbols. (5 Marks)  
(b.) State Any 5 (Five) Applications of Database (5 Marks)

**QUESTION FOUR**

- (a.) Data is Life, in two Sentences, Explain briefly what data and Database are in Visual DBase Programming with a simple example (5 Marks)  
(b.) State Any Five (5) Advantages of Visual DBase programming Language. (5 Marks)

**QUESTION FIVE**

- (a.) A Customer who is having an Account in a Bank with his/her names, street, city. Use model symbols to illustrate the scenario in a diagram. (5 Marks)  
(b.) Explain the word 'Package' in Visual Dbase (5 Marks)



**THE FEDERAL POLYTECHNIC, EDE  
SCHOOL OF APPLIED SCIENCES  
DEPARTMENT OF COMPUTER SCIENCE  
SECOND SEMESTER 2017/2018 ACADEMIC SESSION**

**Course Title:** Computer System Troubleshooting II

**Course Code:** COM 226

**Class:** ND II FT, DPT and RPT YR III, Comp. Sci.

**Time Allowed:** 2 Hours

**Instruction:** Attempt four questions only.

**QUESTION ONE**

- a. Briefly discuss various USB standards. 6mks.
- b. State two cogent reasons why USB is based on serial architecture rather than Parallel. 2mks.
- c. State four possible causes for a problem with a device connected to an Input/Output port. 4mks
- d. What is the major difference between serial and parallel ports in terms of direction of data transfer? 3mks

**QUESTION TWO**

- a. Explain briefly two major issues to be considered when troubleshooting a Networked Printer. 4mks
- b. Highlight four steps to take when Troubleshooting Hardware issues. 4mks
- c. If your Computer is connected to the printer via USB cable, State five steps in troubleshooting connection problems. 4mks
- d. State three hardware components that can be used with the Serial port. 3mks

**QUESTION THREE**

- 1. Briefly explain the following ports:
  - a. Serial port
  - b. Parallel port
  - c. USB (Universal Serial Bus) 2mks each
- 2. With the aid of diagram and discussion showcase the two types of USB connectors. 4mks
- 3. Clearly label each of the pins showcased in the USB connectors. 4mks
- 4. What other benefit can USB be used for aside data transmission. 1mks

#### **QUESTION FOUR**

- a. While working on a computer system, and all of the sudden, you encountered an error message which says "This program has performed illegal operation and will be shut down" or "Illegal operation caused by (application working on) in module unknown" 2mks
- i. Name the type of error your computer encountered in the scenario cast above. 2mks
- ii. Define the meaning of error suggested in "ai" to show your understanding of what happened to computer system. 4mks
- iii. State six possible causes of such encounter in "4a" above. 6mks
- b. Briefly define the function of a Modem on a dialup network. 2mks
- c. State one network protocol that can be used by dial up system. 1mks

#### **QUESTION FIVE**

- a. Define virus. 2mks
- b. Discuss two main parts of a computer virus. 5mks
- c. List nine possible symptoms a system infected with computer virus may display. 6mks
- d. State product names of two antivirus software that you know. 2mks

#### **QUESTION SIX**

- a. USB is known as a popular input/output port, which makes it a very common channel via which computer can be infected with virus. State five ways in which you can prevent the use of USB port on your computer system. 5mks
- b. State five possible causes of Computer Start-up failure 5mks
- c. Highlight 10 top Home Networking Problems 5mks

**THE FEDERAL POLYTECHNIC EDE**

**SCHOOL OF APPLIED SCIENCE**

**DEPARTMENT OF COMPUTER SCIENCE**

**2<sup>ND</sup> SEMESTER EXAMINATIONS 2017/2018 SESSION**

**COURSE CODE: COM 224**

**DURATION: 2 HRS**

**COURSE TITLE: M.I.S**

**EXAMINER: ETUDAIYE A.I**

**INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A**

**ANSWER QUESTION NO.1 AND ANY TWO (2) QUESTIONS FROM SECTION B**

**SECTION A (20 marks)**

**For each question, write the keys terms or concept that best describes the brief examples or definitions.**

1. A multi-step iterative process that is used in developing information systems
2. Checking whether the problem can be solved using existing technology.
3. A set of interacting or interdependent components forming an integrated whole
4. A system whose outcome cannot be predicted with certainty
5. A system with feedback and control components
6. A research and development unit set up to protect trade secret is an example of this.
7. Data about the attitude, altitude, speed and direction of an aircraft to a pilot
8. Monitoring and evaluating responses from a system to determine whether it is moving toward attaining its goal
9. This is an abstraction of something known in real life situation. Managers use this to represent problems to be solved.
10. When a sales manager reassigns salespersons to new sales territories after evaluating their performance. Such manager is exercising which component of a system?
11. When a system behaves selfishly
12. A Home control temperature system is an example of this.
13. The minimum time required to complete a project.
14. This says that a system is that totality where the whole is greater than the algebraic sum of all parts of the system.
15. The full meaning of PERT is.
16. PERT was first used in what year?
17. For example, the system of the firm may exist in one or more larger environmental system.
18. A 3-dimensional representation of an entity
19. Code name for the first program in which PERT was used
20. Your evaluation shows that benefit outweighs cost for a proposed system

## SECTION B

The board of directors, one2sys inc has set a firm deadline of 22 weeks to move its credit card operations from Kogi to Osogbo. You are a manager in the operation analysis group. You are to be in charge of planning the move, seeing that everything comes off according to plan and making sure that the deadline is met.

Assume the following activity Table:

| Activity | Description                                             | Dependencies | a   | m   | b   | Expected time | Variance |
|----------|---------------------------------------------------------|--------------|-----|-----|-----|---------------|----------|
| A        | Select office site                                      | -            | 1   | 3   | 5   |               |          |
| B        | Create org and financial plan                           | -            | 3   | 4.5 | 9   |               |          |
| C        | Determine personnel requirement                         | B            | 2   | 3   | 4   |               |          |
| D        | Design facility                                         | A,C          | 2   | 4   | 6   |               |          |
| E        | Construct interior                                      | D            | 4   | 7   | 16  |               |          |
| F        | Select personnel to move                                | C            | 1   | 1.5 | 5   |               |          |
| G        | Hire new employees                                      | F            | 2.5 | 3.5 | 7.5 |               |          |
| H        | Move records, key personnel                             | F            | 1   | 2   | 3   |               |          |
| I        | Make financial arrangements with institutions in osogbo | B            | 4   | 5   | 6   |               |          |
| J        | Train new personnel                                     | H,E,G        | 1.5 | 3   | 4.5 |               |          |

- 1a Find the expected time of completion and variance for each activity. 10 marks
- 1b. Derive the critical path. 2 marks
- 1c. Calculate the standard deviation of the project. 1 mark
- 1d. Assuming the board specifies a 22 weeks project completion deadline. Find the probability of completing the project on time. 2 marks
2. A table named "COURSES" in a database contains the following fields: No . Course-name and Unit respectively.

| No.   | Course-name   | Unit |
|-------|---------------|------|
| CIS15 | Intro to C    | 5    |
| CIS17 | Intro to java | 5    |
| CIS19 | Unix          | 4    |
| CIS51 | Networking    | 5    |

- 2a. perform an **INSERT** operation using **SQL** with any new course of your choice. 2marks
- 2b. perform a **DELETE** operation using **SQL** on any of the course in the table. 2marks
- 2c. perform an **UPDATE** operation using **SQL** on any of the course in the table. 2marks
- 2d. Explain any two (2) classifications of database 4marks
- 2e. Mention five (5) tasks in managing a database 2 ½ marks
- 3a. Explain the following structures of M.I.S 2 marks
- (i) Strategic planning. 2 ½ marks
  - (ii) Management control. 2 marks
  - (iii) Operational control. 4 marks
- 3b. State four (4) importance of M.I.S to business organizations. 2 marks
- 3c. Mention two (2) tasks during requirement analysis in the SDLC 2 marks
- 4a. Define Project Management 2 marks
- 4b. State five (5) stages in managing a project according to the Project Management Institute 2 ½ marks
- 4c. Mention six (6) components of project Management 6 marks
- 4d. Explain Perfective maintenance. 2 ½ marks
- 5a. Explain the following phases of the SDLC. 2 marks
- (i) Feasibility Study 2 marks
  - (ii) System design 2 marks
  - (iii) System Implementation. 4 marks
- 5b. A database is both integrated and shared. Explain briefly 2 ½ marks
- 5c. State five (5) attributes of information



THE FEDERAL POLYTECHNIC, EDE  
DEPARTMENT OF COMPUTER SCIENCE  
2021/2022 SECOND SEMESTER EXAMINATION

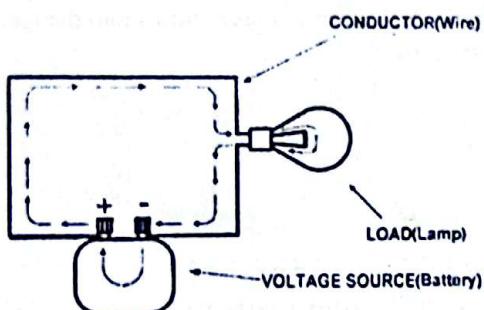
Course Title: BASIC HARDWARE MAINTENANCE  
Class: ND II FT & DPT

Course Code: COM 223  
Time: 2hrs.30minus

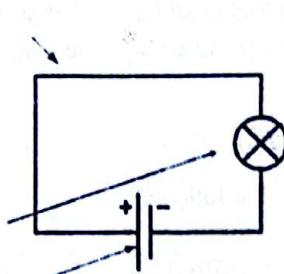
**INSTRUCTION:** Answer question 1 and any other four (4)

**QUESTION 1**

- A circuit has a voltage of 72V passing through it and a resistance of 12Ohms. Calculate the amount of current in the circuit.
- Define Troubleshooting
- List the six steps involved in troubleshooting methodology
- List five (5) differences between Corrective and Preventive Maintenance.
- What is maintenance contract? Hence, list the types of maintenance contract.



*Physical Representation*



*Schematic Representation*

**QUESTION 2**

- From the diagram above illustrating a bulb/lamp, a pair of wires (black and red), set up a small circuit to verify the basic electric theory physically represented above and state your observation:
  - When the switch is closed
  - When the switch is opened
  - When the voltage increases
- The relationship between voltage, current, and resistance in an electrical circuit is fundamental to the operation of any circuit or device. It can be mathematically related in a law called Ohms law. From the illustration above, state Ohms law.

**QUESTION 3**

- What are

- i) Active devices and list two (2) examples of active devices.
- ii) Passive devices and list two (2) examples of passive device.
- b) Explain the function of the following:
  - i) Motors ii) Fuses iii) Batteries
- c) Explain the function of the following:
  - i) Voltmeter ii) Ohmmeter iii) Ammeter

#### QUESTION 4

- a) Explain the following:
  - i on-set maintenance
  - ii depot maintenance
- b) List two (2) advantages each of Corrective and Preventive maintenance.
- c) List four (4) benefits of hardware maintenance contract

#### QUESTION 5 ✓

- a) What is integrated circuit?
- b) What is a logbook? Hence, list three (3) procedures to make entries into the logbook.
- c) List three (3) causes of equipment breakdown.

#### QUESTION 6 ✓

- a) Fill in the following:

| QUANTITY   | SYMBOL | UNIT OF MEASUREMENT | UNIT ABBREVIATION |
|------------|--------|---------------------|-------------------|
| CURRENT    | I      | A                   |                   |
| VOLTAGE    |        | No-lts              | V                 |
| RESISTANCE |        | Ohms                |                   |

- b) Explain the function of the following:
  - i) Signal generator
  - ii) Pulse generator
- c) Mention two(2) importance of keeping a logbook

#### QUESTION 7

- a) What is modular process design and fabrication?
- b) List and explain three (3) characteristics of logic families
- c) List five (5) advantages of using modules in process system design

**FEDERAL POLYTECHNIC, EDE  
DEPARTMENT OF COMPUTER SCIENCE**

**2<sup>nd</sup> SEMESTER EXAMINATION, 2021/2022 SESSION**

**PROGRAMME: ND 2 FT, DPT and RPT III Computer Science.**

**COURSE TITLE: SEMINAR ON COMPUTER AND SOCIETY**

**COURSE CODE: COM 222**

**INSTRUCTION: Attempt all questions in section A, and any four (4) questions from Section B**

**DURATION: 2 hours**

**SECTION A**

1. \_\_\_\_\_ is the type of banking software that allows you to replenish your mobile phone or any pre-paid device. A) Merchant Banking software B) SMS Banking software C) Investment Banking Software D) All of the above.
2. Development of science and technology has direct impact in? A) Education B) Work C) Daily Life D) Conflicts.
3. Computers in traffic control light is in what application A) Traffic Jam B) Road Traffic C) Transportation traffic D) Mobile control.
4. Illiteracy is a \_\_\_\_\_ impact of computer A) Good B) Bad C) Great D) Negative
5. \_\_\_\_\_ is one of the factors hindering the growth of computer in Transportation A) Greenhouse gas emission B) Culture of country C) Religion D) All of the above.
6. \_\_\_\_\_ is one of the roles of computer in Legal field that allows attorneys use computers and the Internet to obtain new clients A) Legal Marketing Online B) E-Discovery C) Online Legal Research D) E-Document Filing
7. Testing and Evaluation process involves \_\_\_\_\_ except A) Keeping records of student for their academic scores B) saving the document as a soft copy C) Online testing and evaluation D) Creating question bank for student
8. CAD means \_\_\_\_\_ A) Computer automated design development B) Computer automated Design C) Computer Aided Design D) Computer assistance-enabled Design.
9. Zoom meeting, Google classroom etc. are examples of flexibility that comes with computer which helps teachers save time by teaching students in real time and are known as \_\_\_\_\_ A) E-learning B) Virtual library C) Flexible library D) Flexible learning
10. Full meaning of GPS A) Global pointer system B) Globe pointer smart C) Global positioning system D) Global Pointer Smart
11. Computer accounting software does not offer one of the followings \_\_\_\_\_ A) Inventory management B) Payroll preparation C) Accounting D) Staff Record management
12. Computers uses in Transportation Involves \_\_\_\_\_ A) Mapping B) Weather forecast C) Online booking D) Electronic discovery
13. \_\_\_\_\_ is an example of new technology applications in transportation that provides accurate and timely information that help travelers to select routes, times of travel and travel modes. A) GPS B) Router C) GMS D) Television
14. Computer in business exclude \_\_\_\_\_ A) Inventory Managements B) Internet C) Advertisement D) Payroll system.
15. Example of citing in a text is A) ade 2020 B) ade T.A.2020 C) (ade T.A., 2020) D) ade T.A., (2020)
16. If you quote or paraphrase another author's work without citing the author's name it is called \_\_\_\_\_ A) Copyright B) Copy and Paste C) Plagiarism D) none of the above
17. The following are the attribute of a good Abstract expect. A) Background B) Methods C) Plagiarism D) Result
18. How is Mobile Computing useful to law enforcement agents. A) access data B) get relevant information C) detail suspect D) A and B
19. Abstract in a seminar paper comprises of \_\_\_\_\_ except A) Body B) Problem C) Method D) Results
20. Computer in tourism involves A) Internet B) Reservation system C) Mobile communication D) A, B, C

*Good luck*

*281  
115  
45*

## SECTION B

### QUESTION ONE

- a) Due to the outbreak of the Covid19, Omolade and Co Chamber has decided to operate from home (Virtually). Suggest with reason legal software you will recommend to the firm. (3marks)
- b) A journal was being published on International journal of Science and Technology on Development of a Typhoid Diagnosis expert system by the following authors: Jamiu S.A, Rasheed S.A and Olasupo M.B in the year 2015. The research journal is in its 7<sup>th</sup> year of publication (i.e., volume7) and is it made up of 12pages. As a final year student, this journal is one of the materials you consulted during the course of your research. Clearly show, how you would cite and reference this journal in your project write-up. (5marks). (2marks)
- c) Explain the following terms: i. Seminar ii. Seminar Report. (2marks)

### QUESTION TWO

- a) State any five(5) negative impact of computer in the society (2½marks)
- b) Define E-learning in simple term. (2½marks)
- c) What is Biometric based Authentication? (3marks)
- d) Highlight the application areas of Biometric based Authentication (2marks)

### QUESTION THREE

- a) Explain the term Abstract (3 marks)
- b) Mention any four (4) contents of an abstract (4marks)
- c) Define the term Mobile Computing (3 marks)

### QUESTION FOUR

- a) Mr. Smith had just returned from the USA back to Nigeria, he plans on embarking on banking Industry that would deliver better financial services to his customers Using the knowledge acquired in COM222, you are required to provide five (5) impacts of computing that would assist him in achieving his vision. (5marks)
- b) Are there disadvantages to the dependence of humans on computer? (2marks).
- c) As a computer scientist, state any three (3) ways computer has impacted negatively in our society. (3marks)

### QUESTION FIVE

- a) Differentiate between Abstract and Conclusion (4 marks)
- b) Briefly explain the work computer and society (3marks)
- c) State three (3) reasons for why we must cite the sources of materials used in writing a seminar paper. (3marks)

Good luck